VM6

**MV distribution
factory built
assemblies
at your service**

IM switch unit cubicle

MERLIN GERIN

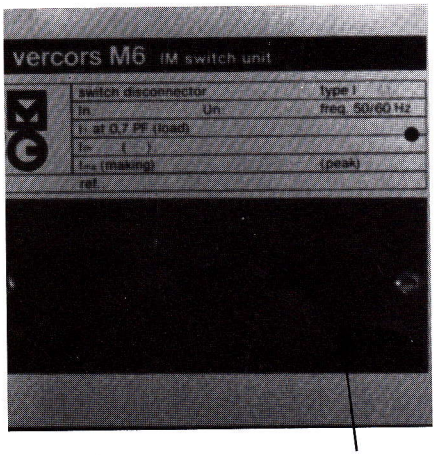
mastering electrical power

GROUPE SCHNEIDER

Number of the cubicle to be quoted in any claim or request addressed to the after sales maintenance department

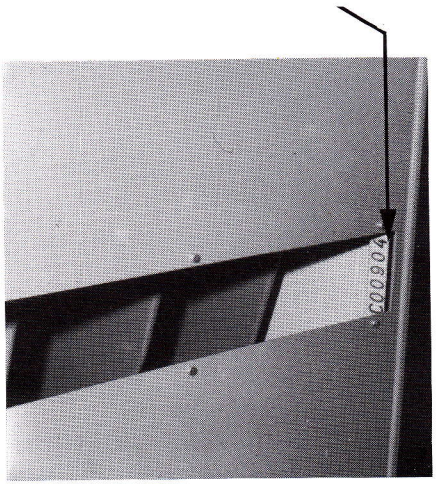
number under customer plate (H)

1



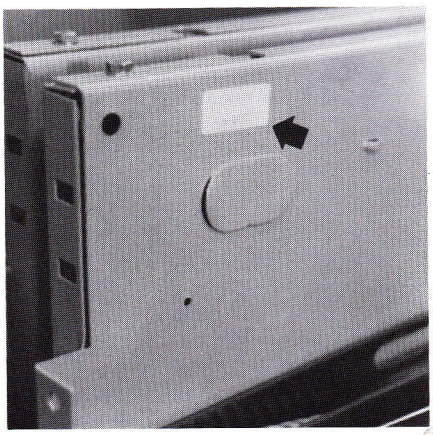
former reference number

2



number inside operating mechanism compartment

3



Identifications

1 - COMPARTMENTS - PANELS

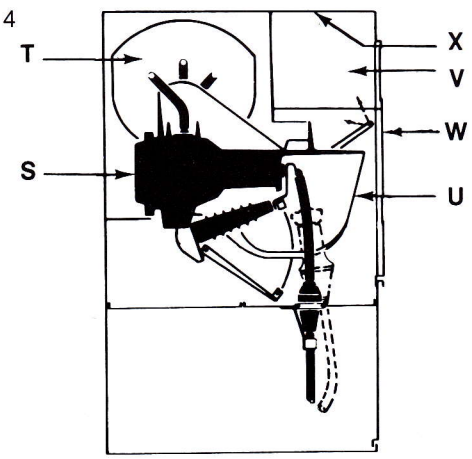
3 **Compartments**

S : Main switch
T : Busbars
U : Connections
V : Operating mechanisms and LV

Panels

W : access to connection and fuse compartments
X : access to operating mechanism compartment

4



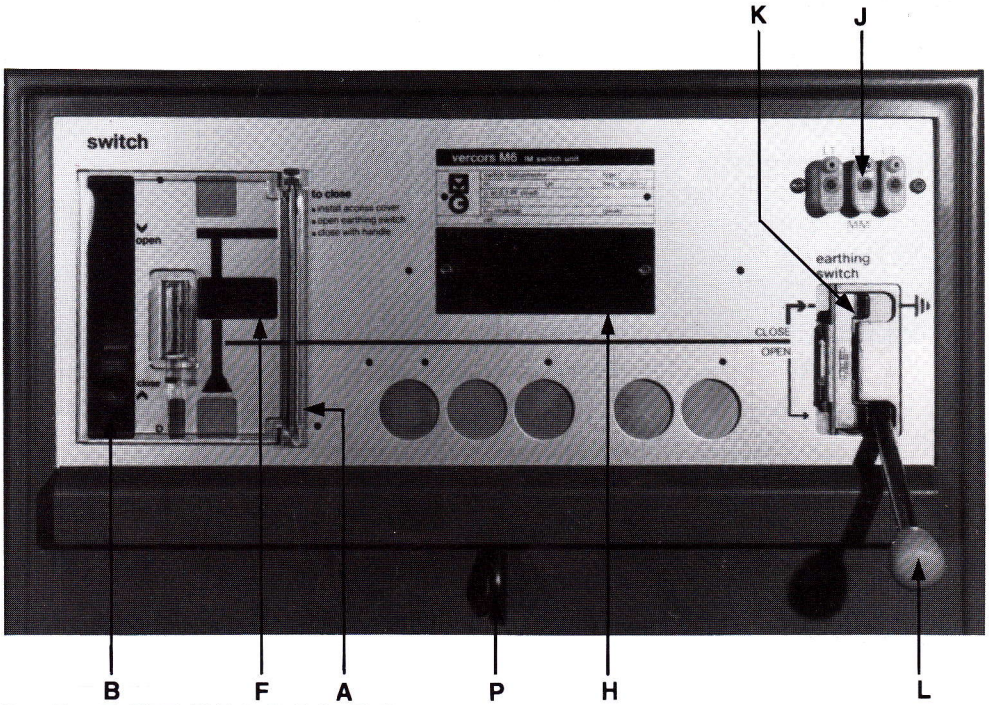
IM cubicle

2 - CIT OPERATING MECHANISM

5 **Key**

SEE CI1 OPERATING MECHANISM

6



3 - CI1 OPERATING MECHANISM

7 **Key**

A : Shutter preventing operation of main switch

B : Socket for operating lever

O : Opening push-button

F : "OPEN-CLOSED" visual indicator showing position of main switch

L : Earthing switch operating lever

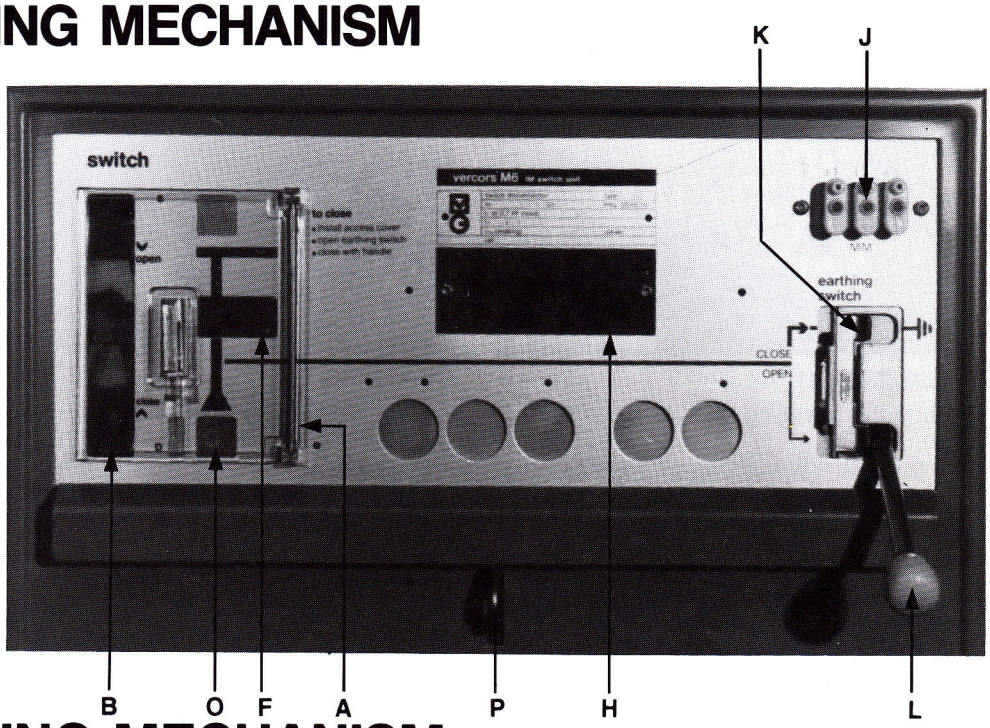
K : Shutter preventing operation of earthing switch

J : Voltage indication lights and sockets for checking phasing

H : Plate to be engraved with the name of the sub-station

P : Access panel padlocking hasp

8



4 - CI2 OPERATING MECHANISM

9 :

I : Closing push-button

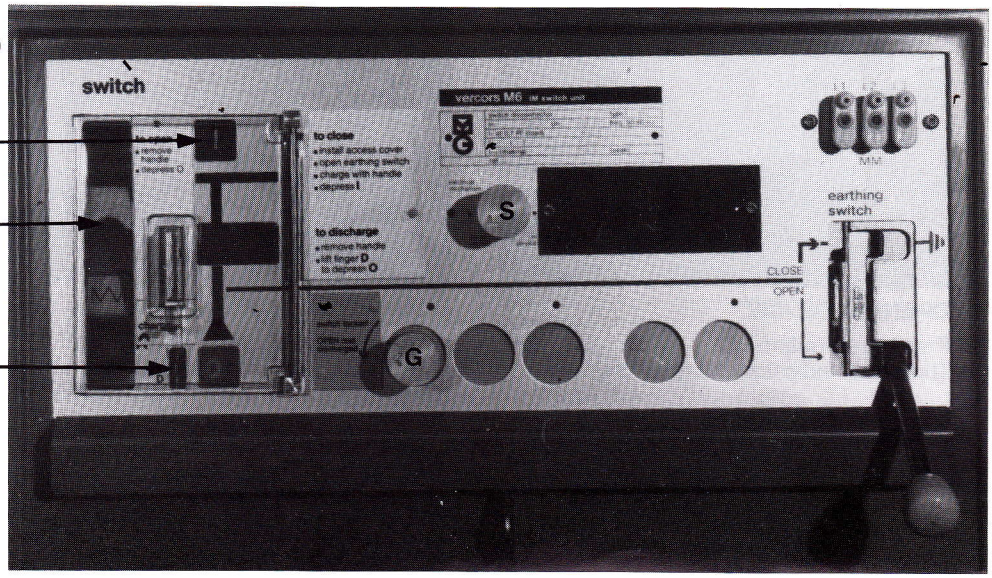
D : Discharging finger

C : Charged-discharged visual indication of operating mechanism position

S : "IN" or "OFF" button to operate electrical operating mechanism (optional)

G : Switch "OPEN" and "DISCHARGED" locking knob

10



11

Manual switch operations

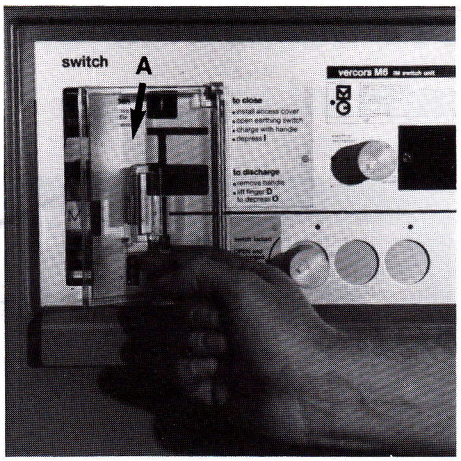
with CI1 and CI2 operating mechanisms

The operations can only be carried out under the following conditions :

— access panel (W) in place

— earthing switch in "OPEN" position

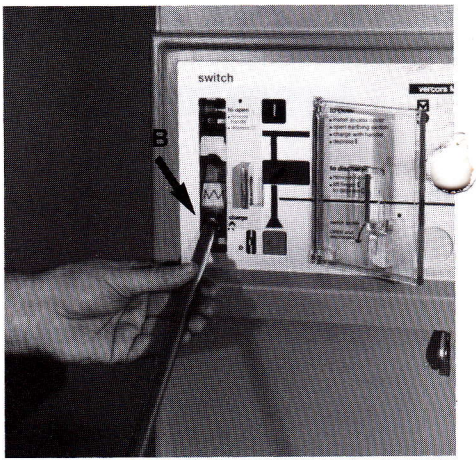
12



CI1-CI2

Raise and open the transparent shutter (A).

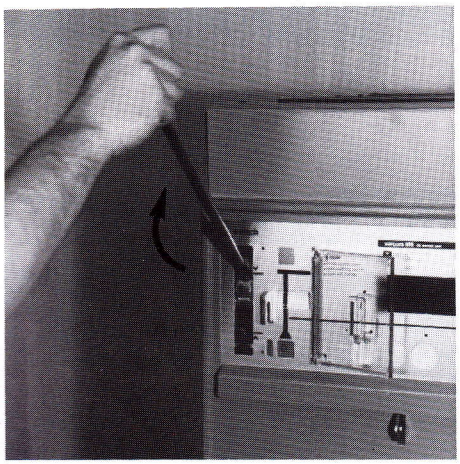
13



CI1-CI2

Insert the operating lever in (B).

14



CLOSING CI1

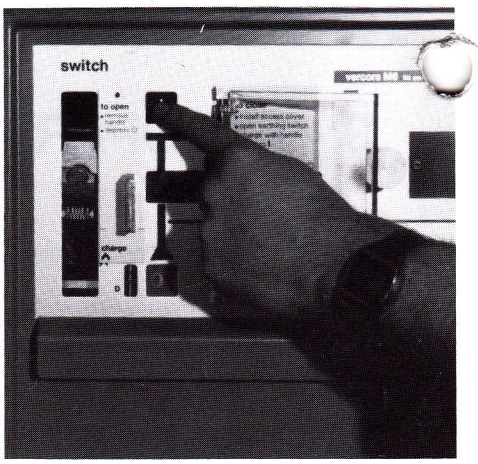
Raise the operating lever as far as it will go.
The visual indicator changes to white.
Remove the lever.

15

CHARGING CI2

Raise the operating lever as far as it will go to "CHARGE".
The operating mechanism indicator changes to blue.
Remove the lever.

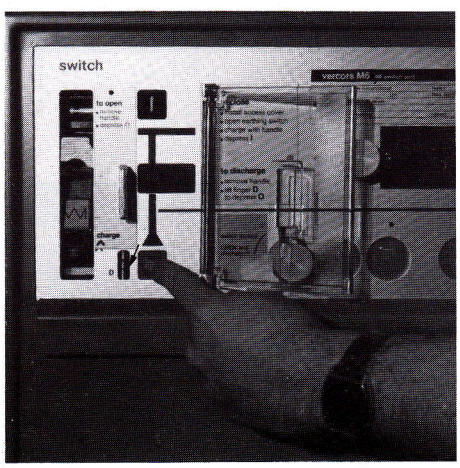
16



CLOSING CI2

Press the push-button "I" to "CLOSE".
The visual indicator changes to white.

17



OPENING CI1-CI2

Press push-button "O".
The visual indicator changes to green.

18

DISCHARGING CI2

When the operating mechanism is CHARGED, it can be opened without going through the "CLOSED" position of the main switch

— raise the finger "D" and hold it in this position

— press push-button "O"

19 with CIT operating mechanism

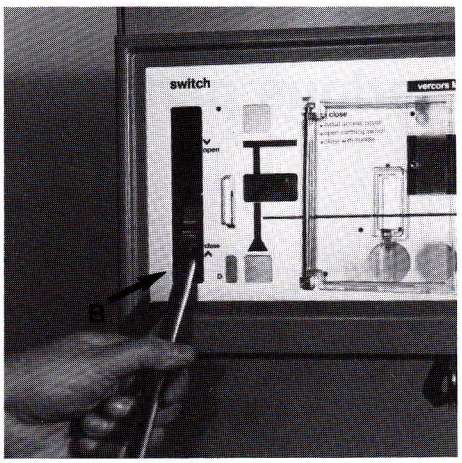
The operations can only be carried out under the following conditions :

- access panel (W) in place
- earthing switch in "OPEN" position

20

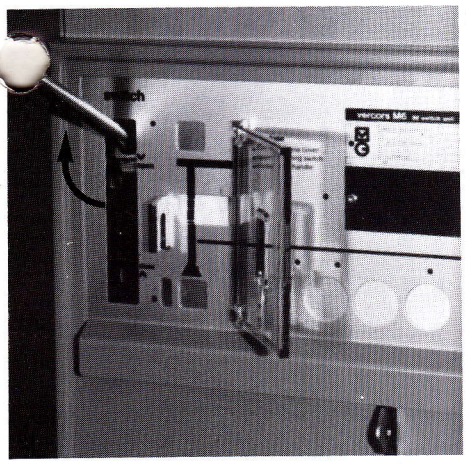
Raise and open the transparent shutter (A)

21



Insert the operating lever in (B)

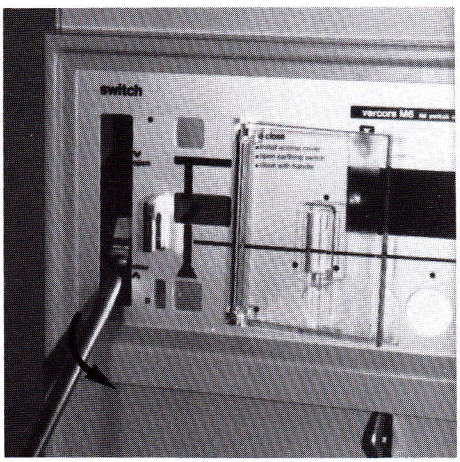
22



CLOSING

Raise the operating lever as far as it will go.
The visual indicator changes to white.
Remove the lever.

23



OPENING

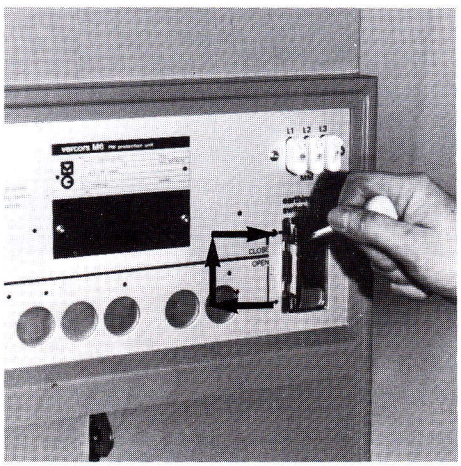
Lower the operating lever as far as it will go.
The visual indicator changes to green.
Remove the lever.

24 Earthing switch operations

The operations can only be carried out if the main switch is in the position "OPEN" : CIT.CI1

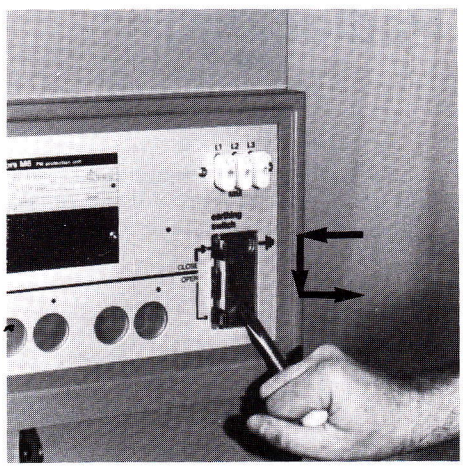
OPEN DISCHARGED CI2
Visual indicator green

25



Move in the direction shown by the arrow to "CLOSE".

26



Move in the direction shown by the arrrow to "OPEN".

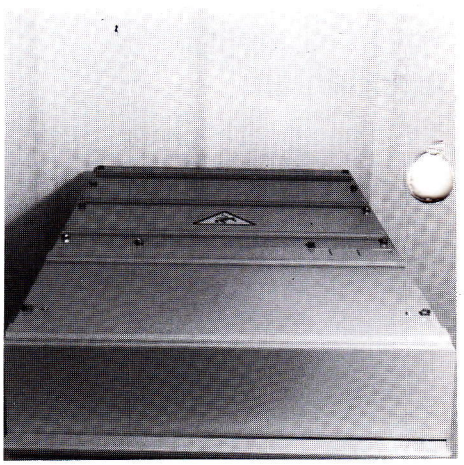
27 # access to various parts

28

TO THE OPERATING MECHANISMS

The power supply to the cublice may be left "on".
Unscrew and remove the panel.

29



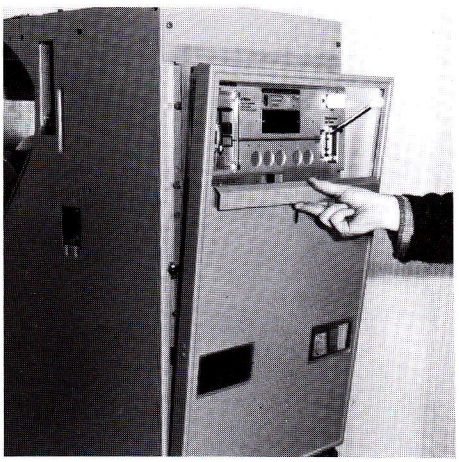
TO THE BUSBARS

Conditions :

- no power supply to the busbars.
- main switch "OPEN"

Unscrew and remove the 10 bolts
Remove the panel

30



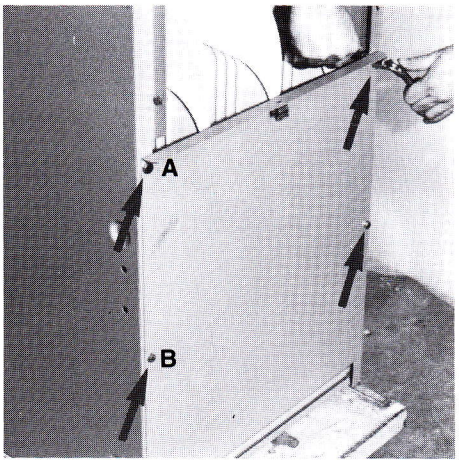
TO THE CONNECTION COMPARTMENTS

Conditions :

- main switch "OPEN"
- operating mechanism "DISCHARGED"
- earthing switch "CLOSED"

Lift and remove the panel.

31



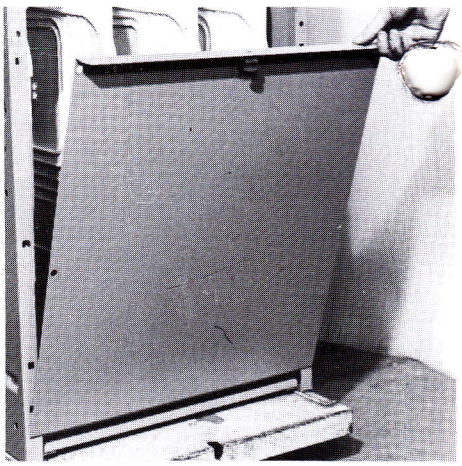
TO THE LOWER PANEL

4 fixing points

A : 2 nuts and bolts

B : 2 bolts

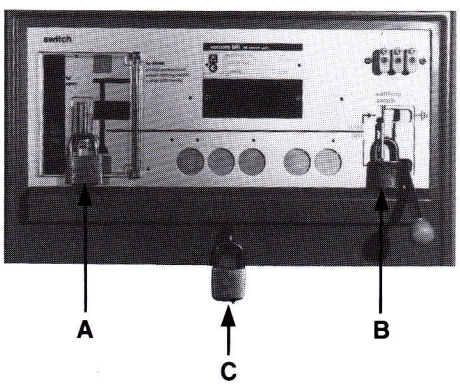
32



...then unfix and remove the panel.

33 # Padlocking

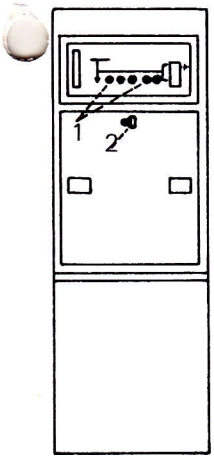
34



35 Up to 3 padlocks can be fitted to each location.

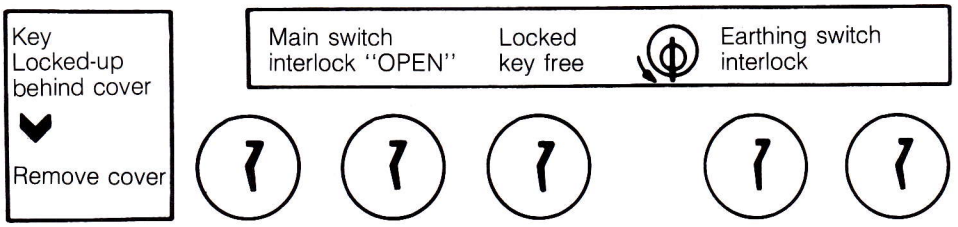
Padlock A :
Prevents operation of the main switch.
Padlock B :
Prevents operation of the earthing switch.
Padlock C :
Prevents opening of access panel to the connections compartment.

36 Key locking
(optional)



Location of key locks
1 – Operating mechanisms
2 – Access panel

37



Main switch "OPEN" position interlock

Possibilities :
– 3 locks with CI1 – CIT
– 2 locks with CI2 + main switch "OPEN" and "DISCHARGED" locking knob.

Earthing switch interlock

Possibilities:
– 1 or 2 locks in "CLOSED" position or
– 1 or 2 locks in "OPEN" position

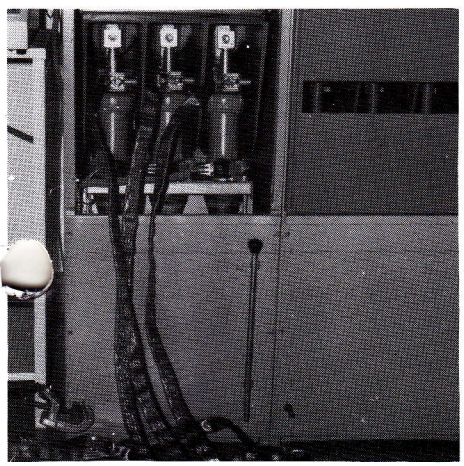
Turn anticlockwise a quarter of a turn to lock and release the key.

38 Fitting the earth clock

The CLAMP is fitted, without adding any parts, directly onto the terminal lug :

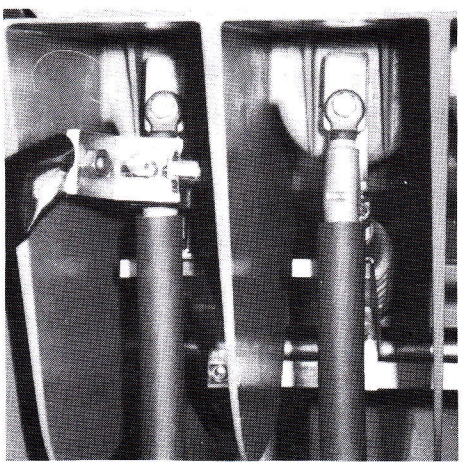
– of the U 24 1 RI cable box
– of the T 24 1 RM6 cable box
– of the dry cable

39



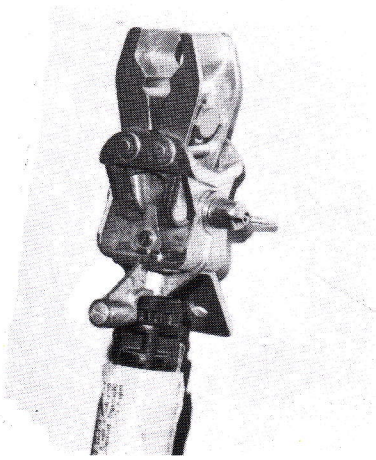
Complete assembly, on cable box.

40



Example of fitting on dry cable. In this case, a length of about 50 mm must be left unclad.

41



It is also possible to use a universal clamp which is fitted front-on to the body of the terminal lug.

42 Notes

We draw your attention to the dangers of cleaning proceeding consisting in projecting an isolating solvent under high pressure.

The main diadvantages of the proceeding are the following :

— impossibility to lubricate again the inaccessible greasing points (greased lifetime) therefore seizing.

— corrosion of the not regreased zones.

— damages due to jet pressure.

— overheating risks due to the isolating solvent presence on contacts zones.

— elimination of special protections.

Therefore Merlin Gerin cannot guarantee the reliability of equipment having undergone this type of cleaning even if it is followed by a lubrication.

After sales service

Call your nearest local representative (or subsidiary). Inmost cases, this Company will be able to meet your after sales service requirements.
If necessary get in touch with the Area sales department in Grenoble.
Tel. 76 57 60 60
télex 320843F

Merlin Gerin
F-38050 Grenoble cedex 9
tel. 76 57 60 60
telex : merge 320 842 F

as standards specifications and desings develop from time to time, always ask for confirmation of the information given in this publication

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